

In re Patent Application of:

**BONHOMME**

Serial No. 09/993,913

Filed: NOVEMBER 6, 2001

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**In the Specification:**

Please replace the paragraph beginning at page 4, line 11, with the following rewritten paragraph:

The estimation of the impulse response of the channel is carried out at regular intervals. To produce this estimate the length of the channel is currently defined in advance, i.e., a number of coefficients ~~is~~ are fixed a priori for the impulse response of the channel. By way of example, in the case of GSM, the number of coefficients is fixed at a maximum value to satisfy the most stringent recommendations, such as those set forth in the standard ETSI EN 300 910 V8.5 (July 2000) entitled Digital cellular telecommunications systems (Phase 2+), Radio transmission and reception (GSM 05.05 Version 8.5.0 Release 1999).

Please replace the paragraph beginning at page 5, line 4, with the following rewritten paragraph:

In view of the foregoing background, it is therefore an object of the invention ~~to~~ to enhance the estimate of the channel by discriminating the multipaths which are spread only slightly in time from those which are heavily spread. In other words, the invention adapts the number of coefficients of the impulse response to a multipath type.

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Please replace the paragraph beginning at page 10, line 21, with the following rewritten paragraph:

The propagation medium MPR between the transmitter EM and a receiver TP, here a cellular mobile telephone, is air in the present case. The receiver TP, or cellular mobile telephone, may ~~includes~~ include at the front end an antenna ANT2 coupled to an analog stage PAN. The analog stage PAN performs a frequency conversion to bring the received modulated signal down to baseband, and it performs filtering to keep only the useful part of the spectrum.